

LOW RESISTANCE POLYMER MATRIX FUSE
APPARATUS AND METHOD

ABSTRACT OF THE DISCLOSURE

A low resistance fuse includes a polymer membrane, a fuse element layer formed on the polymer membrane, and first and second intermediate insulation layers extending on opposite sides of the fuse element layer and coupled thereto. At least one of the first and second intermediate insulation layers comprises an opening therethrough, and the polymer membrane supports the fuse element layer in the opening. A heat sink, heater elements, and arc quenching media may be used in combination with the fuse, and the fuse may be fabricated with an adhesive lamination process.